a silicon oxide film for sealing an etchant filling hole of a sacrificial layer on said diaphragm;

said semiconductor pressure sensor characterized in that a polysilicon film is provided to cover part or all of said silicon oxide film.

- 2. (Amended) A semiconductor pressure sensor according to Claim 1, characterized in that a distance of said covered part is at least 10 microns or less from said etchant filling hole.
- 3. (Amended) A semiconductor pressure sensor according to Claim 1, characterized in that a thickness of said polysilicon film is 0.1 microns or more.
- 4. (Amended) A semiconductor pressure sensor according to Claim 1, characterized in that a thickness of said polysilicon film is 0.1 microns or more up to and including 0.4 microns.
 - 5. (Amended) A pressure detector, comprising:
- (a) a detector providing an output, the detector including as an integral unit;
 - a substrate,
- a diaphragm formed on said substrate by a sacrificial layer etching method,

a silicon oxide film for sealing an etchant filling hole of a sacrificial layer on said diaphragm, and

- a polysilicon film covering part or all of said silicon oxide film;
- (b) a correction circuit for correction of the output of said detector;
- (c) a package enclosing said correction circuit and said detector; and
- (d) an intake tube provided in said package, the intake tube being used for introducing external pressure to said detector.
- 6. (Amended) A pressure detector according to Claim 5, characterized in that a distance (h) of said covering part is at least 10 microns or less from said etchant filling hole.
- 7. (Amended) A pressure detector according to Claim 5, characterized in that a thickness (i) of said polysilicon film is 0.1 microns or more.
- 8. (Amended) A pressure detector according to Claim 5, characterized in that a thickness (j) of said polysilicon film is 0.1 microns or more up to and including 0.4 microns.
 - 9. (Amended) A pressure detector according to Claim 5 comprising:
- (e) a sub-package further comprising said correction circuit and said detector as an integral unit, and having on a surface a pad connected to said correction circuit, and

(f) an output terminal removably connected to an external signal line and being used to send a signal from said correction circuit to the external signal line;

said pressure detector further characterized in that

(g) said correction circuit and said detector are enclosed by said package after said pad and said output terminal are connected by a metal wire.

Please add new claim 10 as follows:

10. (new) A semiconductor pressure sensor, comprising:

a substrate;

a diaphragm arranged on the substrate, a gap between the diaphragm and the substrate being formed by sacrificial layer etching using etch channels arranged about a periphery of the diaphragm;

a silicon oxide film arranged over the diaphragm in order to seal the etching channels; and

a polysilicon film covering at least a substantial portion of the silicon oxide film.

(Applicants' remarks are set forth herein below starting on the following page).